

## WEST Search History

Hide Items

Restore

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Cancel

DATE: Monday, June 07, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>	
<input type="checkbox"/>	L8	L2 and rotational	0
<input type="checkbox"/>	L7	L6 and threshold	1
<input type="checkbox"/>	L6	l2 and (benzoic acid or benzoat\$)	1
<input type="checkbox"/>	L5	l2 and (trifluoromethoxy with difluoro\$)	1
<input type="checkbox"/>	L4	EP-1228163-\$.did.	1
<input type="checkbox"/>	L3	WO-20010027221-\$.did.	0
<input type="checkbox"/>	L2	WO-2001027221-\$.did. or US-5858270-\$.did.	2
<input type="checkbox"/>	L1	cquzu\$ or ccquzu\$ or ccquzg\$ or ccquzp\$ or cquzg\$	0

END OF SEARCH HISTORY

## WEST Search History

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DATE: Monday, June 07, 2004

**Hide? Set Name Query****Hit Count***DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ*

<input type="checkbox"/>	L4	EP-1228163-\$.did.	1
<input type="checkbox"/>	L3	WO-20010027221-\$.did.	0
<input type="checkbox"/>	L2	WO-2001027221-\$.did. or US-5858270-\$.did.	2
<input type="checkbox"/>	L1	cquzu\$ or ccquzu\$ or ccquzg\$ or ccquzp\$ or cquzg\$	0

END OF SEARCH HISTORY

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		<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>	
<input type="checkbox"/>	L1	cquzu\$ or ccquzu\$ or ccquzg\$ or ccquzp\$ or cquzg\$	0

END OF SEARCH HISTORY

=> d his

(FILE 'HOME' ENTERED AT 17:55:37 ON 07 JUN 2004)

FILE 'REGISTRY' ENTERED AT 17:56:17 ON 07 JUN 2004

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 10 S L1 FUL

FILE 'CAPLUS' ENTERED AT 17:57:25 ON 07 JUN 2004

L4 3 S L3

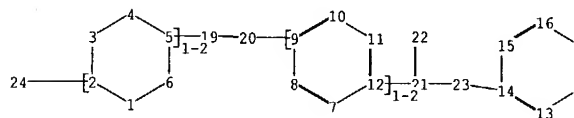
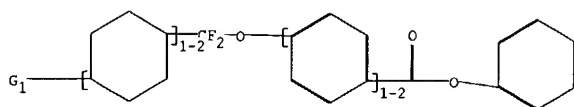
FILE 'REGISTRY' ENTERED AT 18:00:24 ON 07 JUN 2004

L5 STRUCTURE UPLOADED

L6 797 S L5 FUL

FILE 'CAPLUS' ENTERED AT 18:01:48 ON 07 JUN 2004

L7 1 S L6



chain nodes :

19 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

2-24 5-19 9-20 12-21 14-23 19-20 21-22 21-23

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15  
15-16 16-17 17-18

exact/norm bonds :

1-2 1-6 2-3 2-24 3-4 4-5 5-6 9-20 14-23 21-22 21-23

exact bonds :

5-19 12-21 19-20

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16 16-17 17-18

G1:C,O

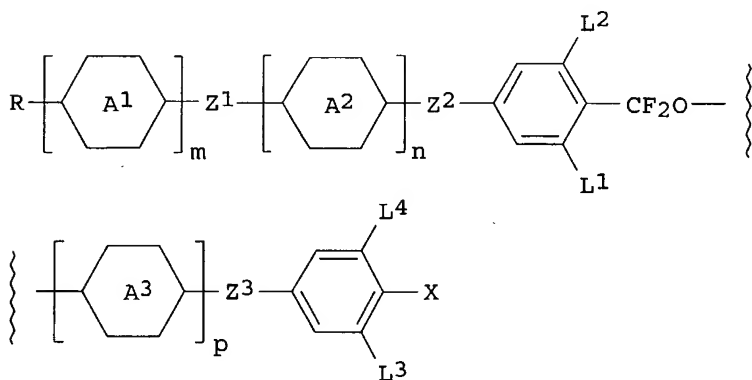
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS  
21:CLASS 22:CLASS 23:CLASS 24:CLASS

AN 1996:437810 CAPLUS  
 DN 125:100344  
 ED Entered STN: 25 Jul 1996  
 TI Difluoroxymethane derivative and liquid crystal composition  
 IN Matsui, Shuichi; Miyazawa, Kazutoshi; Ohnishi, Noriyuki; Haseba, Yasuhiro;  
 Goto, Yasuyuki; Nakagawa, Etsuo; Sawada, Shinichi  
 PA Chisso Corp., Japan  
 SO PCT Int. Appl., 243 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 IC ICM C07C043-225  
 ICS C07C069-75; C07C069-753; C07C069-757; C07C069-76; C07C069-773;  
 C07C069-86; C07C069-92; C07C069-94; C07C255-54; C07C255-55;  
 C07D239-26; C07D239-34; C07D309-34; C07D309-36; C09K019-20;  
 C09K019-30; C09K019-34; C09K019-42; C09K019-44  
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 FAN.CNT 3  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9611897	A1	19960425	WO 1995-JP2099	19951013
W: BR, CA, CN, FI, JP, KR, NO, SG, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2202349	AA	19960425	CA 1995-2202349	19951013
CA 2202349	C	20030107		
EP 786445	A1	19970730	EP 1995-934292	19951013
EP 786445	B1	20020717		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1158602	A	19970903	CN 1995-195209	19951013
JP 2828507	B2	19981125	JP 1995-513097	19951013
JP 2828508	B2	19981125	JP 1995-513098	19951013
JP 2873096	B2	19990324	JP 1995-513099	19951013
AT 220656	E	20020815	AT 1995-934292	19951013
US 5858270	A	19990112	US 1997-776298	19970130
PRAI JP 1994-274511	A	19941013		
JP 1995-205531	A	19950811		
WO 1995-JP2099	W	19951013		

 OS MARPAT 125:100344  
 GI



I

AB A difluoroxymethane derivative is represented by I (m, n and p = 0, 1; A1-3 = 6-membered ring such as trans-1,4-cyclohexylene or 1,4-phenylene; Z1-3 = covalent bond or bonding group such as -CH2CH2-; L1-4 = H, halo; and X =

halo, OCF<sub>3</sub>, etc), which is lowly viscous, has a high permittivity anisotropy and is useful as a low-voltage liquid crystal material for various liquid crystal displays. The compound is useful as a low-voltage liquid crystal material of various modes including active matrix and STN systems.

ST difluoroxymethane deriv liq crystal compn

IT Liquid crystals  
(difluoroxymethane derivative and liquid crystal composition)

IT Optical imaging devices  
(electrooptical liquid-crystal, difluoroxymethane derivative and liquid crystal composition)

IT 178820-25-2  
RL: DEV (Device component use); USES (Uses)  
(difluoroxymethane derivative and liquid crystal composition)

IT 176176-33-3P 178689-90-2P 178689-91-3P 178820-26-3P 178820-30-9P  
178820-34-3P 178820-37-6P 178820-42-3P 178820-46-7P 178820-50-3P  
178820-53-6P  
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)  
(difluoroxymethane derivative and liquid crystal composition)

IT 619-66-9, 4-Formylbenzoic acid 2438-05-3, 4-Propyl benzoic acid  
65355-29-5, 4-(trans-4-Propylcyclohexyl)benzoic acid 95906-34-6  
99627-05-1, 3,4,5-Trifluorophenol 138526-69-9, 3,4,5-Trifluorobromobenzene 154951-07-2 160810-21-9 178820-22-9  
178820-23-0  
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
(difluoroxymethane derivative and liquid crystal composition)

IT 88639-42-3P 92069-55-1P 132123-46-7P 178820-24-1P 178820-27-4P  
178820-28-5P 178820-29-6P 178820-31-0P 178820-32-1P 178820-33-2P  
178820-35-4P 178820-36-5P 178820-38-7P 178820-39-8P 178820-40-1P  
178820-41-2P 178820-43-4P 178820-44-5P 178820-45-6P 178820-47-8P  
**178820-48-9P** 178820-49-0P 178820-51-4P 178820-52-5P  
178820-54-7P 178820-55-8P 178820-56-9P 178820-57-0P  
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)  
(difluoroxymethane derivative and liquid crystal composition)

IT **178820-48-9P**  
RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)  
(difluoroxymethane derivative and liquid crystal composition)

RN 178820-48-9 CAPLUS

CN Benzoic acid, 4-[difluoro(4-propylphenyl)methoxy]-, 4-(trifluoromethoxy)phenyl ester (9CI) (CA INDEX NAME)

